CDF Operations Summary

Steve Hahn
January 13, 2005

Don't believe! Generally, silicon in from start

Store	Start	Stop	hours	InitL	Deliv	LiveLumi	Good *	Silicon	Runs Taken During St
3920	2005.01.12-23:52 Wed.	2005.01.13-11:30	11.6	79.8	2,024.4	1,406.0 69.4%	0.0 0.0%	0.0 0.0%	**192275 192277 192278** **192280 192281 192282**
3918	2005.01.11-10:17 Tues.	2005.01.12-16:48	30.5	75.1	3,319.3	2,814.4 84.8%	1,128.0 34.0%	1,128.0 34.0%	**192230 192232 192237** **192241 192243 192244**
3917	2005.01.10-02:37 Mon.	2005.01.11-06:47	28.2	81.1	3,532.8	2,923.2 82.7%	1,723.5 48.8%	1,723.5 48.8%	**192195** 192196 **192197** 192201 **192202** 192208 **192209 192214 192216**
3915	2005.01.08-14:38 Sat.	2005.01.09-16:45	26.1	71.5	3,025.7	2,555.0 84.4%	2,553.6 84.4%	2,553.6 84.4%	**192167 192168 192169** **192170 192171** 192172
3908	2005.01.07-11:34 Fri.	2005.01.07-14:06	2.5	81.3	647.2	452.8 70.0%	322.1 49.8%	322.1 49.8%	**192096 192097 192100**
3906	2005.01.06-04:36 Thurs.	2005.01.07-07:12	26.6	56.4	2,344.8	1,275.6 54.4%	1,165.0 49.7%	951.8 40.6%	192029 192030 192031 192032 192033 192035 192036 192037 192038 **192039 192040** 192042 **192043 192049 192060** 192061 **192063** 192065 **192066** 192067 **192068** **192069** 192072 **192073**
[6]	2005.01.06-04:36	2005.01.13-11:30	125.6	74.2	14,894.2	11,427.0 76.7%	6,892.2 46.3%	6,678.9 44.8%	Stores 3906 to 3920 InitL is average, others are sums

Last night: "losses" result in GLINK b0fib02 problems (twice!) and plug CAEN crate problems

Runs 192167–192209 **bad TDC code**

Stores long enough for accounting in **bold**

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DQM chart using GoodRun GUI bits

192039	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192040	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192043	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192049	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192060	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192063	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192066	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192068	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192069	0.00	0.00	PHYSICS_3_00											CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192073	0.00	0.00	PHYSICS_3_00											CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192100	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL			CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192167	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192168	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192169	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192170	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192171	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192197	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192202	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192209	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192214	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192216	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192230	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192232	0.00	0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192237		0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TO		
192241		0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TO		
192243		0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC
192244		0.00	PHYSICS_3_00	Farm	GoodOn	CLC	L1	L2	L3	CCAL	PCAL	CAL	COT	CMU	CMP	CMX	IMU	SVX	ISL	L00	SVT	SMX	TOF	MNP	BSC

CMX wedges 4 & 5 LV problem

TDC code problem (Had TDC, too)

?

BSC base/PMT replaced

GoodRun GUI training lacking; blame ops man

Why is online DFC lum zero back to 12/17 and bad before that?

No DQM info in current store?

CDF Operations Summary

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- Pretty clear we're still suffering from shutdown(s) to some extent
  - Still several PMT channels hot (light leaks?) or dead (CHA, WHA)
  - CES card bad in 17E–worked on twice without success
  - Still several infrastructure monitoring issues:
    - Muon scintillator PC still recovering after system disk crash
    - CLC/CPR PC still has infrequent odd behavior
    - TOF CAEN crate generates infrequent inhibits
- Lingering questions:
  - How could we have avoided many bad runs due to TDC problem?
    - Had TDC display removed from YMON due to crashing
    - CMX display in YMON ignored
    - L1 trigger rates in XMON ignored (lost in a sea of red)
    - Muon and Had TDC distributions in ObjectMon were first noticed; we're told to ignore ObjectMon
    - J/ψ and/or W rates in ObjectMon would also have been revealing, but rates are much lower (why? since when?)
  - How to integrate DQMON and PHYSMON into shift operations?
  - Were problems last night due to losses? Any other handles so far away from beamline?

CDF Offline Summary

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- Data Processing
  - Currently, we are processing only streams A, B, and G data using 5.3.1 release ProductionExe.
  - Data processing was delayed by more than 10 days at the beginning of this week because of the delay of the beamline calibrations. The delay was caused by the beam-width fitter failure, which is related to beam position shifts. The beam-width fitter is turned off for the time being.
  - Raw data processing is now catching up:
    - Last processed run (as of 1/13/2005, 9:00AM): run 192073 (1/7/2005)
    - Express production: up to run 192216 (1/10/2005)
- Software development
  - Building 6.1.0pre1 release now with gcc 3.4.3. We'd like to use gcc 3.4.3 for 6.1 release (motivated by cdfSim, which currently does not work with gcc-maxopt).
  - Reviewing all the (5.1 and 5.3 release) ProductionExe crashes at farm. Trying to fix all modules that caused those crashes in 6.1 release.
  - Making progress in processing new TDC format data. We had trouble reconstructing tracks in new TDC format data. This was turned out to be due to time offset (-80 ns) in new TDC format. Fixing code to handle this offset.